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STALINETS-6 TRAILER COMBINE

Engr A. A. Bekser

In 1947, the reactivated Soviet combine-building plants Rostsel'mash
 and Kommunar began regular production of a new trailer combine, the Stalinets-6.

One of the basic tasks which faced the designers of this combine was the
 construction of a machine the traction resistance of which would conform to
 the power of the SKhTZ-NATI domestic tractor. In order to decrease traction
 resistance, the diameter of the drive wheels was increased to 1,500 millimeters
 and that of the gauge wheel to 900 millimeters. The width of all wheel rims
 was brought to 375 millimeters. The capacity of the hopper was decreased from
 2.18 to 1.8 cubic meters. This lowered the traction resistance and made it
 possible to attach two Stalinets-6 trailer combines to the SKhTZ-NATI tractor,
 running in second gear.

For better utilization of the combine when harvesting high-yield grains
 (25-35 centners per hectare) at a normal speed, the cut of the header was
 decreased from 20 to 16 feet (4.9 meters).

The cutting apparatus of the combine is equipped with three low-cutting
 fingers.

The combine was also equipped with four or five headlights for night opera-
 tion.

The Rostsel'mash Plant is producing hay and chaff stackers for the Stalinets-6
 combine to carry out continuous gathering of hay and chaff in stacks of 15 cubic
 meters. Immediate stacking behind the combine improves the stubble, which is
 very important from the point of view of good farming.

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Comparatively simple and dependable attachments are designed and produced by combine plants for converting the combine to harvesting of sunflowers, soy, millet, buckwheat, coriander, etc.

Specifications for the level-land Stalinets-6 grain combine follow:
16-foot cut; 40 horsepower U-5m engine for driving the working parts;
length of combine without hay and chaff stacker, 9,420 millimeters; width including header, 10,515 millimeters; width in conveying position without the auger and canvas, 2,950 millimeters; height, 4,200 millimeters; weight of combine, 5,140 kilograms; weight of hay and chaff stackers with elevator 1,100 kilograms.

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